

SEQUENCE LISTING

<110> FMC Corporation

Wu, Shilan

Allenza, Paul

Halling, Blaik

<120> Aphis gossypii Polo-like Kinases

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Glu Ile Phe Ala Gly Lys Ile Val Ser Lys Lys Tyr Leu Leu Lys His
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Asn Gln Lys Asp Lys Met Thr Gln Glu Ile His Ile His Lys Met Leu
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Lys His Thr Asn Ile Val Thr Phe His Ser Phe Phe Glu Asp Asn Asp
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Phe Val Tyr Ile Val Leu Glu Leu Cys Arg Lys Arg Ser Met Met Glu
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Leu His Lys Arg Arg Lys Thr Leu Thr Glu Pro Glu Thr Arg Tyr Tyr
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Val Phe Gln Ile Leu Glu Gly Thr Leu Tyr Leu His Asn Gln Gly Ile
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Ile His Arg Asp Leu Lys Leu Gly Asn Leu Phe Leu Asn Asp Glu Met
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Glu Val Lys Ile Gly Asp Leu Gly Leu Ala Ala Arg Ile Glu Tyr Asp
165 170 175

Gly Gln Arg Lys Lys Thr Leu Cys Gly Thr Pro Asn Tyr Ile Ala Pro
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Glu Ile Leu Ser Lys Thr Gly His Ser Phe Glu Val Asp Val Trp Ser
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Ile Gly Cys Ile Met Tyr Thr Leu Leu Val Gly Lys Pro Pro Phe Glu
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Lys Ala Asp Phe Phe Thr Thr Gly Tyr Met Pro Lys Lys Leu Pro Pro
275 280 285

Ser Cys Leu Thr Met Ala Pro Arg Phe Asp Ser Ile Asn Tyr Arg Glu
290 295 300

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Ala Ile Ile Lys Val Ala Ser Lys Pro Gln Asp Pro Val Asn Lys Leu
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Cys Val Gly Val Met Phe Asn Asp Phe Thr Arg Ile Val Leu Leu Ala
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495

Met Tyr Gln Trp Tyr Arg Ser Thr Ser Ser Val Ile Met Gln Leu Thr

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505

510

Asn Gly Thr Leu Gln Ile Asn Phe Thr Asp His Thr Lys Val Ile Leu

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520

525

Cys Pro Leu Met Asn Ala Val Thr Phe Ile Glu Asn Asn Val Phe Arg

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535

540

Thr Tyr Arg Phe Asn Thr Ile Ala Glu His Gly Cys Ser Pro Glu Leu

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Asp Ser Pro Val

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20 25 30

Ser Asn Arg Arg Pro Leu Asn Glu Leu Asn Ser Pro Lys Ala Ala Ile
35 40 45

Ile Lys Val Ala Ser Lys Pro Gln Asp Pro Val Asn Lys Leu Pro Met
50 55 60

Phe Asn Ile Pro Asn Lys Pro Thr Thr Gly Asn Gly Val Ser Ser Asn
65 70 75 80

Asp Cys Lys Glu Tyr Met Met Ser Leu Glu Arg Glu Leu Gly Asn Leu
85 90 95

Leu Lys Cys Lys Pro Thr Met Lys Gly Met Lys Asn Met Glu Glu Asn
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Thr Asp Pro Ala Ala Gln Pro Leu Ile Trp Val Ser Lys Trp Val Asp
115 120 125

Tyr Ser Asp Lys Tyr Gly Phe Gly Tyr Glu Leu Ser Asp Asp Cys Val
130 135 140

Gly Val Met Phe Asn Asp Phe Thr Arg Ile Val Leu Leu Ala Asn Leu
145 150 155 160

Lys Asp Val His Tyr Ile Glu Arg Asn Gly Ser Glu Gln Tyr His Thr
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Thr Glu His Thr Pro Pro Ser Leu Glu Lys Lys Met Lys Leu Leu Met
180 185 190

Tyr Phe Arg Arg Tyr Met Asn Asp His Leu Ile Lys Ala Gly Ala Asp
195 200 205

Ile Leu Ala Lys Asp Ala Asp Gln Leu Ser Arg Thr Pro Tyr Met Tyr
210 215 220

Gln Trp Tyr Arg Ser Thr Ser Ser Val Ile Met Gln Leu Thr Asn Gly
225 230 235 240

Thr Leu Gln Ile Asn Phe Thr Asp His Thr Lys Val Ile Leu Cys Pro
245 250 255

Leu Met Asn Ala Val Thr Phe Ile Glu Asn Asn Val Phe Arg Thr Tyr
260 265 270

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Cys Leu Glu Tyr Ala His Lys Lys Ile Gly Ser Ile Leu Lys Asp Ser
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